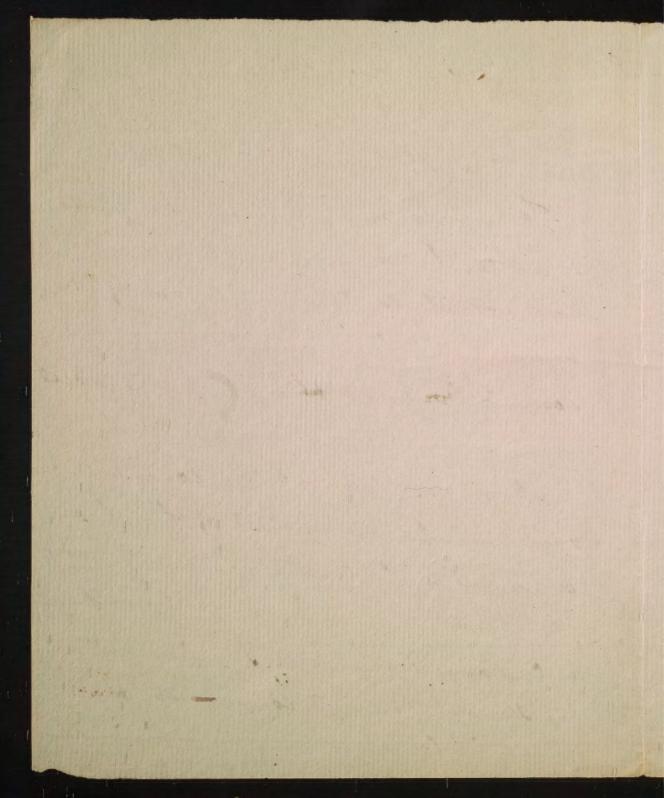
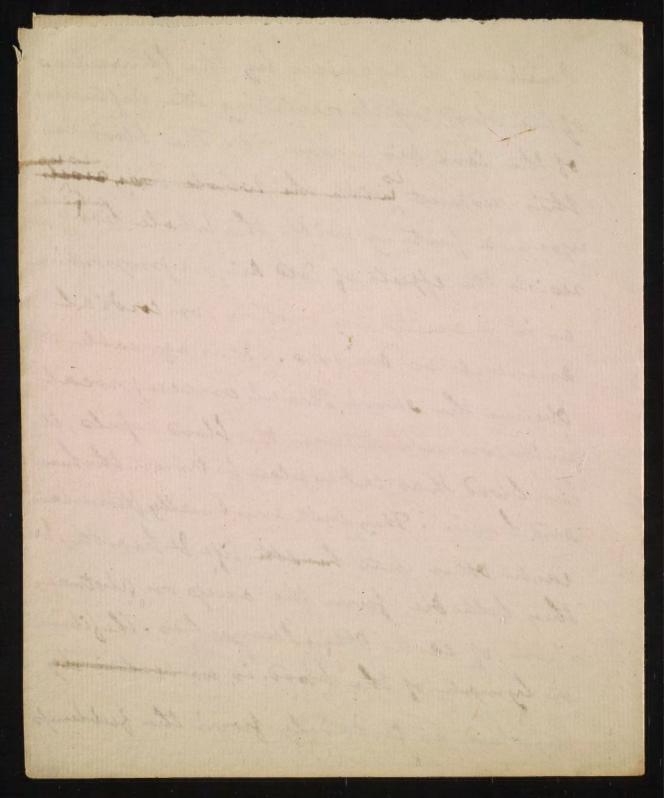
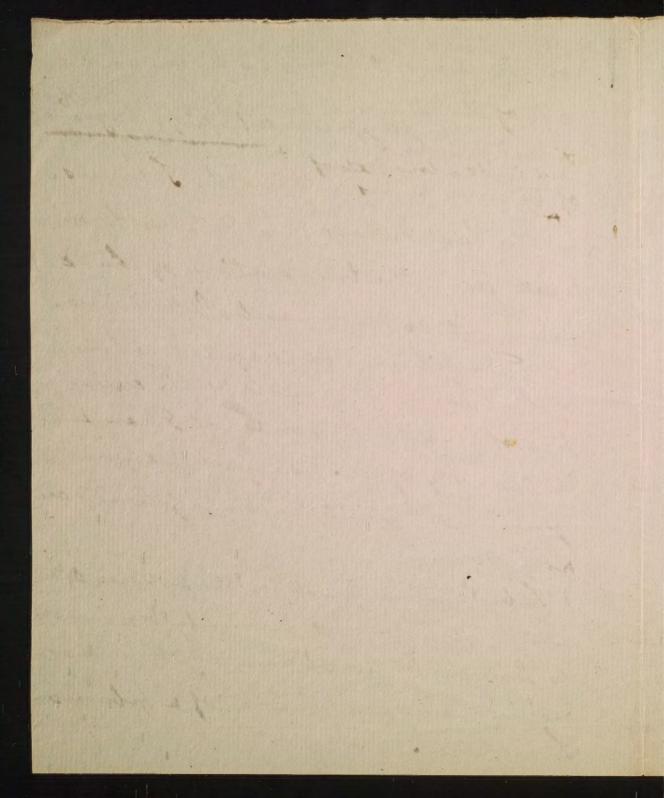
His we now know it disposes it to a 7397 more youdy Congrelation only by reducing the force of the blood vefpels. It would seem formall these facts, that the lips the blood is acted upon by the blood refrels, therewe it loses of its anismalised State, and the doveres it Descends down to Ha level with deal or nonanimulind matter, mulipan? - tralarly as gellies which coagulate as town as they are depoined of this heat, or exposed to the Cool air: But the Inne the blood repuls art upon it, within a Certain Digne called Typocha action the slower the blood congulates, and that in Consequence of the animal



qualities it acquires by the Stimulus of the blood Expels resisting the influence of the Cool air upon it. The blood in This respect with the whole body with eyour a footing with the whole body resists the effects of Cold his, in proportion as it is existed by motion con condial aliments or drinks. It is agreeable to Observe the same Jorial or reciprocal interevense between the blood repuls, & the blood that takes place between the host and brain. They both mutually plimelate each other into hartte life & health, be they both die from the coup on abstrace. show of each Others Itienalus. The fibrin or lymph of the blood is an extrinty dipolo as certainly from the fublings



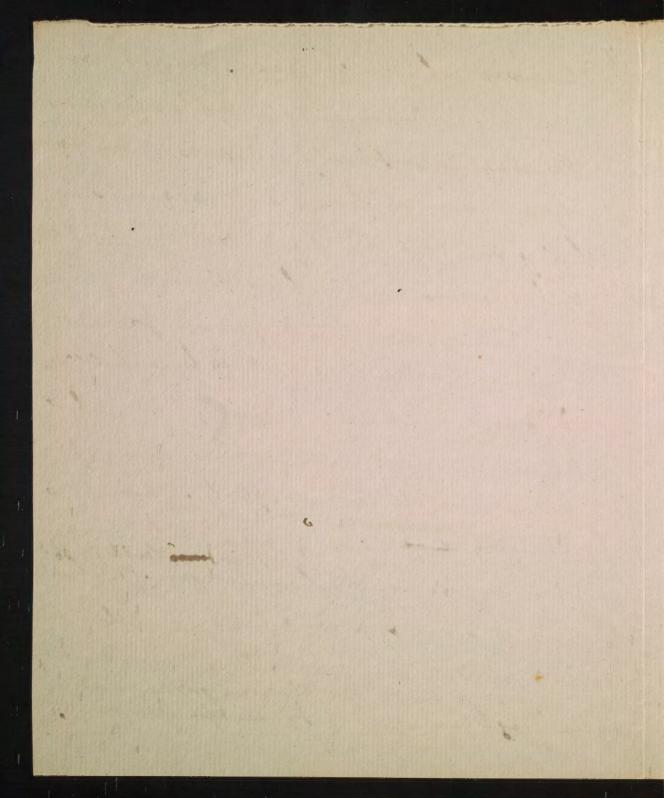
or absence of action, as from anex== = cup of it. This has been frequently to.
- resurd in the scurry hand the fatter,
and in the low late of in the Tetarus.
of typhus fivers and in the Tetarus. In the last disease, the asteries busines weak from the translation of this ex = citement to the muscles Itendons. The fibrier, or congretating hymphe of the blood is supposed to be the exclusive feat of its Vitality, or what I have called. its capacity of life. The facts & arguments upon which this opinion is Journed are as follow. I Fibier when found in the articles after, death, or when thousoughly deprived of its ferrer by absorption or otherwise, discours evident marks of a fibrous Thustures



2 hibein discovers motion when subject - to to gahanis influence similar to that Which is Observed in a Irruscle. 3 smittel discovered contraction, and dilatation in the fibrie analogous to the same Actions in a muscle, in a false Anurism in a person at Lyons, and on a part where there was no artery large eno to produce a susible pubation. modumas who relates this fact in his physiology asks insmediately afterwards, Whether the pulsation of the arliers may not be apisted by the alternates Contraction and dilutation of the lymph of the blows? 4 The Congrelation of the blood is at = - celevated, and retarded by all the

A CONTRACTOR OF THE PARTY OF TH Bet at the second of the The state of the s and the second s A STATE OF THE PARTY OF THE PAR A service of the serv Carlo many by the second of the seco 

Lauses which enemase, retail, on Distroy the Construction of the muscles. It congulates flowly in proposition to The muscular texture it acquires by being arted repose by a certain grade of Stimulus in the blood repuls There are three different forms aprented by the Congrelating hyposph accom = ding to the different grades of asterial action upon it. I The approxume of a: elexid enuscle, or dead flesh. This is pro-= dued by that degree of Ather which takes. place in plunisy & Rhumakism. 2 The apprenance of a Contracted ensiste, or a Eupped appearance. This is productly or plusitie or rhumatic in higher degree of Lynochla action.



3 membrane which is pervaded by news and blood repels. This is produced by a Hitt bigher quale of Tynocha action, and that per ales protructes for a long iderable time. This membrane occurs only in the Synveha, or what is called the Spen in flaminutory flats of fever. Juliet with a refuger to this Juliet have carefully examined Leinstereds dispections of persons who have died with in which we know the analy nant fives with a reference to this beliget, a blood to be too much on so little stringleted as to lose its cosagulating power, and found but one instance of a membrane or completety organized flish being found in any part of the body, and that was probably



I produced by the fever being Lynniche, that or last Stage. I said a little while ago that blood exhibited a buffy cout when Irown in pregnancy. This is the effect of an in = - flammatory actions imparted to the blood refsels by the timesters of the Distens Uterus. This inflam action is wisely interes I believe to enemase the grans - tity of fibries in the blood for the prospose of siminishing the feeters in Ultero, begin freshing the basis of Amenial pretter and of course in the constitutes the Irmisis hement. From this, it would June that the human body is not only conseined and brought forthe in

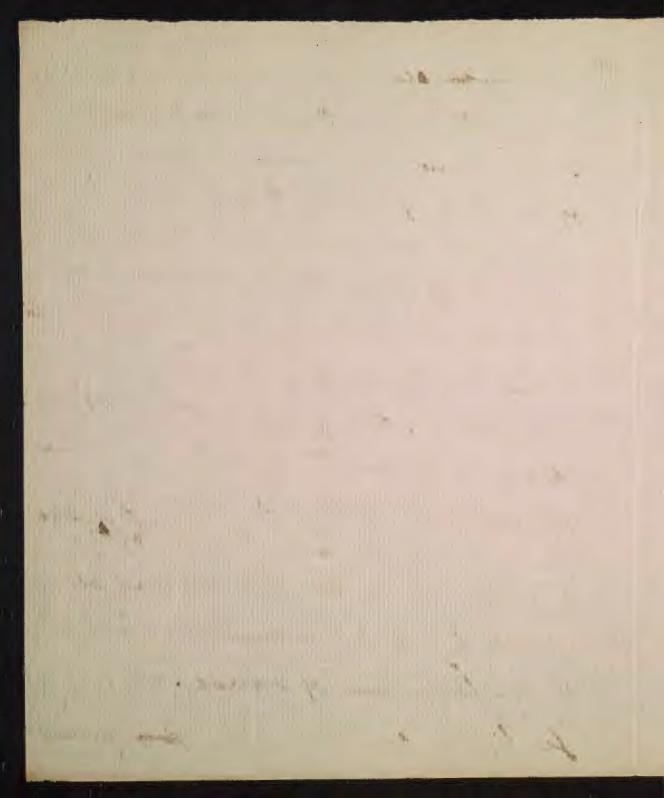


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Which it is from in the word is the grownet of adiscase, that is of an influen action in the blood repuls. 5 I infor that the febries is the feat of its following pulatying tomes when it is Esaparmentions of blood in which there appeared no buff, or fibries, and much I woner the am the Server of the blood. This has been ascertained by an experie = smert mude by Six John Penigle, and related in his apendix to his breakise upon The discess of the British assny. This experiment was up ented at my reguest by motherwise in the Pennsy hespital

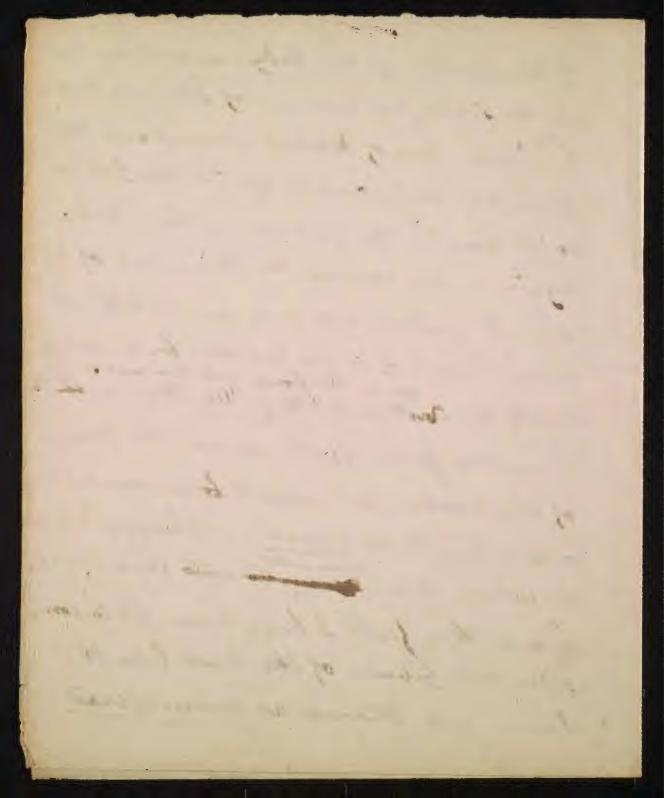


10, and with abith as wonstances which added additional hypport to the doctrine I am now delivering. He took a portion of the buff of the blood of a person in an inflam fever , and an equal portion of the buff of the blood of a presson in good health, and exposed them bethoto the same degrees of heat in simular litrations. The Jumes pretratied to ones Ik an the latter. This experiment was The more spudy putrefaction of the blood in un influmfur was occa. = 1 ioned by its being more animalired by the Minutes of discree. Thus you fee life is cruited in the fine apart



of the fluids of the body, as well as in all the Solids, by means of Himmelus. as Stringeles of discuse energies the Quantily and force of life in the Johids, to it does in the fibrin of the blood. again - he observe the Chinesters of dis-= case to produce not only fensiles lity in parts Durid of it is health, but issite.

- brility or Contractility - We observe this have the fame effect upone the fibrin of the blood. It impacts to contractility to it when it is cupped, and huribility to it when it is converted into membrane, From these facts I have been ted to com. = sider the fiberin of the blood like the bones and tendons as animalized



only in their natural or healthy flates, and that they become animated, the That is asynine funcility & contrastility only by the additional Stimulus of 6 and lastly. The endler Death induced by the prison of the Vipus sums to Dypund upon the endler extinction of the animation greatities of. the filsier of the blood. It does no ham unly it come in contact with the blood. From the Inddenness with with which death is produced, it would seems that the whole fibrin of the blood is a shown geness map, or in Other words, our great animalized



musele. hung part of it dies from an imprepion made upon a single mall part of it by what I have called the I grapatty of Continuity. Town the history that has been given of the blood effects which Stimms a new nomenelature runs neupary to Disignate the Changes whith are produced upon it. Its Dipolection House be called it apparent Denther to better ley are excep or abstraction of trinsches Should be called apparent death. When it is restored to its rubural consistency, by means of bluding or Stimulants it Thousa be said to be recupetated. I have said enembrane is produced



from the fibrin of the blood. It or = curs more frequently after prummy and Cynauche trushialis Itanafter form other form of influencatory Lyis, and the wind pipe is distructed by it. Busides enembrane, polypi, Schrisin and the basis of Culculi and pres are formed from it. The fast remark I shall make is only to represent that it is nowish, - ament of the body. It is admirably fitted for this purpose, being of a very brutiline orature. Too Dre reason why blood was forbidden as Abinent to the ferres, humans it conveyed homishing into the body that did not wind with the heat of the Climate inhabited by them. And the standing

Sipolow in it. These are

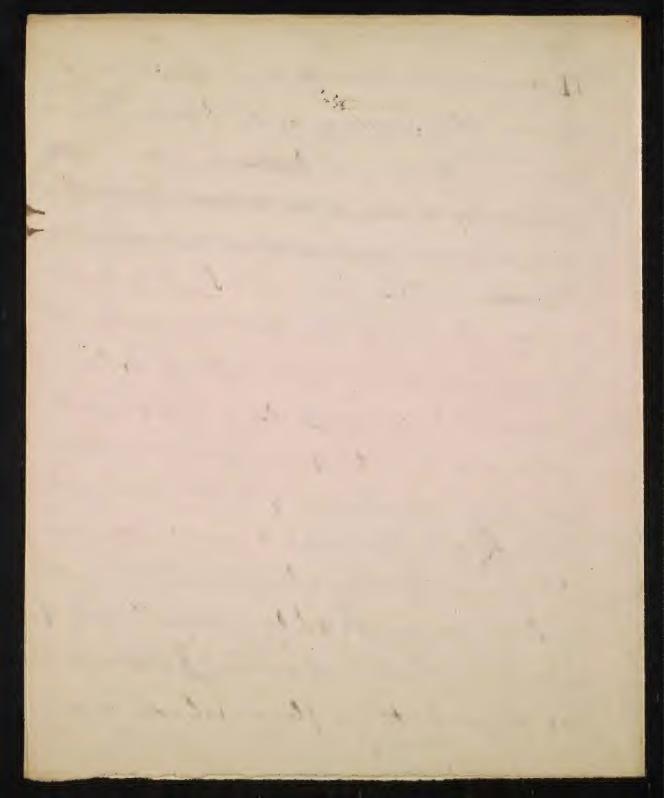
I how about in it. These are

I would - Infohrer, I some neutral falts. The

alloweren is obtained by conquilating it

by means of heat. It contains like
by means of heat. It contains like
which case

by other part of an Assignat. II: lue proud next to say a few words upon the Seven of the blood. It is water with several from metters, too topos to site sportion of the state distribution it when the mind with to it has been called Serosity by me. Junal. Server of the blood constitutes the gravey of arienal food, which where Obtained by itself affords a light, and pleasant article of food for invalids. It tinges the Typus of biolets of a green Colon By a Chengical analysis it wills albumen, getatin, Kulphur - Carbonatt of Loda - musiate of Loda - phosphorate of Luda , and phosphorate of time I tyruses are to furnish those phids which are



necepary in the different Cells & cavities of the body such as the Venticles of the brain, and perseardieum, and to dipole and convey out of the body all saline and improper matters. It is the excep and Stagnation of this part of the blood that constitutes boat, and general dropsies. III The red globules of the blood come next Under our notice. many disputes have existed about their form. The guite globular. I have seen them distinctly in the year 1769 this min Hewsons trienoscope floating in the



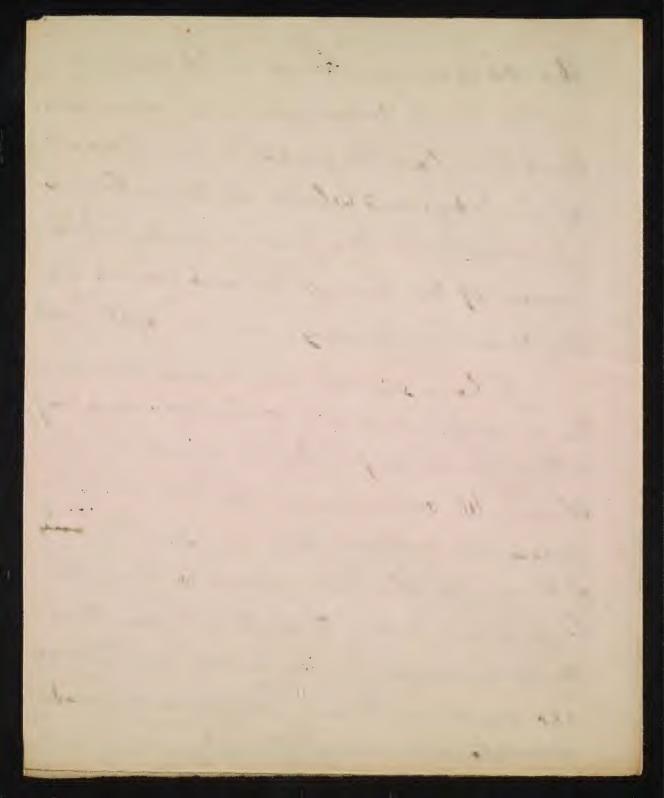
in the Serum of some blood, in which they exhibited an appearance resembling in their figure a Wolland Cream Chase. They are larger in a Skate, and lep in an ox than in man. The diameter of a single Globule is compreted by me. Bell to be less than 3000 part of an inch They are of a more florid colon in the veins dhan in the arteries). When Try they are highly inflammable, from which it has been hypposed they are of an oily nature. That this is not the Case I infer from the hymph where dry, bring equally inflammable, and yetwe know it does not contain a partiele of vil in it. The 100 color of the globules is derived from the action of the Drygen



14 of the air upon them. weinfer this to be the case from its even using the ned color of the blood out of the body, & from the blood losing its red color when Dypin a of the air. This is wident from the Dark Colon of the blood which falls to the bottom of a bowl. The oxygeny the air Drfriestly has taught us in evereuses the red Color of the blood even When it is confined in a bladder. That the vaysen of the air is the Course of the no Color of the blood is obvious from its insparting the same Color to had, and to the helphate of Iron when subjected to Calcination. The 20 Color which we Observe in have that have been presented by Salt petre is Derived from



the vargen contained in that falt. The Dark tolor which is observed in blow that has Itagrated in any past of the body, and which is sometimes perceived in the face in certain dis. - cases of the hungs is oursioned by the incomplete oxygenation of the blod. I have said the red globules are not the most epential part of the blood. as a proof of this, we see perfect life in insects without them. We see mouver life besurvery from diseases in which there are Jeanely my of them in the blood respels to give the blood a red Colon. D' Strabbe relates that the poor people in Buladoes many years ago drawh a ligeror called mobby made of protatoes Jermented with water which



degriced their blood of its red to lon, de here it beame common to call very puls people in that is land "Inobby faces". your health is Connected with a Due Grantity of no globules in the belood wepels. Their healthy presence is known by a red Orbor in the lips & chuhs. Their exceps is known by a highly florid color of This use is said to be to keep the Lymph in a florid flate by being diffresed the it, to give to the blood repels - & the blood repels to some fumish a Tubstance Capable of Durnpring the onygen of the air in order to obtain from that portion of heat Which is generated in the lungs. They sometimes like the typigh,

V But it downstimes exists in it in an elastic to the bound of which a larget al a this king proof occurred in our bropital bes in the moult of april 1811. Upon opening the a Voir in the home of a man whose I knell was fractured. the blood ipned som a full tream for a while, and them I waters topped. This Itoppage was followed with a hipping Droise like the discharge of dis from a porter bottle. It was distinctly heard not unds by mor lang the apother of The hospital who opened the view, but by the Irranty of the hospital who heto the bowl that received the blood. after continuing for about 4/4 of a Inimite, it Suddenly Styoped, upon which blood again ipred in a full Hream from the the Vien. Celous titles us that the Crops employed in the Day

and Semme, become the cause of houses, by & forcing their way into serves vepels, and thereby inducing inflammation-by busting small vepels, and thereby pro-- During hornowhases, and by Hagnating in lax parts, and therety bringing one Lunges times and iso beligications. many Inbstances have been supposed to enter into the Corresposition of the blood besides those which have been mentioned. It is Cestain it Coutains some air in a semiclastic Stale. This air formationes Itagnetes in parts of the body and is se: = cretio and pouried forthe from the lives in certain Discuss. But of this Ishall Day more in our pathology. There is a happy puruliarity in



The blood which Defends it from being injured by the mixture of bill, or an This with it. The is not however the Case with Inatters of a proteid rahere. They are spendily thrown from it by the Channels of the hier, the kidneys & the bowels. I before mentioned its applicable to be distroyed by have covering in wortact with the smallest portion of the poison of the viper. The greantity of blood in a man of ordinary lise is five & twenty punts, we have arstried the Use of each of the component parts of the blowd. It servains that Imention the Uses of the whole graps. They are to impart a



portion of that life to the body which it derives from themuli - to any which it Sensibility to the newes by giving tone to their Contiguous blood vepels to afford the body are Derived a Three verious & the must be windered as the minus of humility the initability of the words of the words of the words of the minus of humility to initability of the words of the minus of humility to initability of the words of the minus of humility to initability of the words of the minus of humility to initability of the words of the minus of humility to initability. It would be the words of the minus of humility to the words of the was after a Survey of both probably that moses bulared the life of every aminal to be in its blood. By a Chemical analysis, theblood has been found to yill the bollowing Inalters - Water - fibris, - albremen, gelatin, - Hy drosulphurate of anomoria, Soda, Inhyphosphosate of Joves, - muriate of Ivda, phosphate of Joda, and phosphate of live gelatin exists in animals of the



lowest beder. In is in a their and hinging plates in the Zouphertes - it is of troute a thisher Consistence in insuts, It is combined with albumen in creta. -ceous arimals and lovers. It is combined with albumen & films in custin reptiles and in fishes, but it perfection and com-- bined with the greatest quantity of in birds - great supels the gelatin is albumer and fibring the gelatin is species first, in the production of unimal malter, out of which are formed albug = men & fibrier in the order in which they have been mentioned,

